Date: Tue, 9 Mar 93 04:30:02 PST
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #62
To: packet-radio

Packet-Radio Digest Tue, 9 Mar 93 Volume 93 : Issue 62

Today's Topics:

ARSENE
just wondering?

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 9 Mar 93 00:14:08 GMT
From: news-mail-gateway@ucsd.edu
Subject: ARSENE
To: packet-radio@ucsd.edu

Thomas N3HAU said:

I think the biggest problem with any kind of a token ring situation is that stations will be added/dropped from the satellite footprint all this time, and if we too wait long for a station to pick up it's token, and that station is no longer in range, things will slow down rapidly. Still, if the max wait time is small (say 1-2 seconds) this shouldn't be too bad. Could you mention some details about how this might work?

I say:

Most people don't realise (I didn't!) that ARSENE is not an LEO sat. It has a high 16/17 hour orbit (its up in a circular orbit at 20, 000 miles or so with a low inclination (?)). This means a lot of different approches to channel management will work that wouldn't work otherwise with LEOs.

This was mentioned in Joe Kasser's article below (cryptically but its there!). The reference to Doppler shift is what counts. I did have the more detailed orbit info (from a radio-info post?) but I didn't save it.

| The digital transponder is a digipeater. There is no PBBS
|aboard. All users will have to contact stations (in real-time)
|directly via the orbiting digipeater to send them messages.
|Packet radio Bulletin Board System (PBBS) stations will have to
|contact other PBBS stations for message forwarding, individuals
|will contact each other, and they will all be digipeating through
|the same ARSENE spacecraft. Working through ARSENE will be
|similar to working through AMSAT-OSCAR (AO) 13, namely minimal
|Doppler, but some time delay on the signal. Received signal
|strengths however, are expected to be much stronger than those of
|AO-13.

The technology involved is old -- but the orbit will give it some new twists.

Kevin Purcell N7WIM / G8UDP
a-kevinp@microsoft.com
"We conjure the spirits of the computer with our spells"

Date: Mon, 8 Mar 1993 13:46:05 GMT
From: usc!wupost!emory!rsiatl!ke4zv!gary@network.UCSD.EDU
Subject: just wondering?
To: packet-radio@ucsd.edu

In article <dlawlor.731579198@morgan> dlawlor@morgan.ucs.mun.ca (Doug Lawlor) writes:
>I am just wondering if anyojne could point me to a list of good
>recamended tncs? I am in the market for a tnc and am wondering which
>ones to avoid.

For *packet only*, I would recomend a true clone of the TAPR 2. The MFJ1270B is the default. The PacComm Tiny 2 is an improved version that is also an excellent choice. The reason for this adherence to the TAPR standard is that it allows easy upgrade of modems through the disconnect header, and easy ROM firmware upgrades. Neither the Kantronics or AEA units have third party firmware availability, and installing third party modems is a non-trivial modification. It's also nice that the TAPR clones tend to be the cheapest full hardware TNCs as well.

Gary

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Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
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End of Packet-Radio Digest V93 #62
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